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INSTALLATION INSTRUCTIONS
for the
Kodak MINILOADER 2000P VAN KIT
for the
Kodak MINILOADER 2000P
Service Code: 3479
with the
Kodak Min-R MAMMOGRAPHY PROCESSOR
Service Code: 3752

Important
Qualified service personnel must install this kit.

HEALTH IMAGING

Confidential
Restricted Information
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This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

Table of Contents

Description	Page
Safety	3
Packing List	4
Necessary Materials	5
Tools	5
Publications	5
Installation	6
Installing the MINILOADER 2000P VAN KIT	6
Preparing the MINILOADER 2000P for Transport of the VAN	13
Setting Up the MINILOADER 2000P After Transport of the VAN	20

Section 1: Safety

Warning

To prevent damage to personnel, keep floors and drains around your *Kodak X-Omat* PROCESSOR clean and dry at all times. Any fluids from mixing tanks, and drain lines should be cleaned up immediately. If fluid is on the floor because of an overflow or other malfunction of the drain, call a qualified person to correct any problem with the drain. Kodak is not responsible for the serviceability of any drain connected to a *Kodak X-Omat* PROCESSOR. Drains are the responsibility of the customer.

The transport and disposal of photographic chemicals may be subject to additional regulatory requirements. Check with your federal, state or local authorities for additional information.

This information defines the safety and information icons used in this publication.

Warning

This icon is used for conditions that could cause personal injury.

Caution

This icon is used for conditions that could cause damage to equipment or software data.

ESD

Possible damage from electrostatic discharge.

This icon is used for conditions that could cause damage to the equipment.

Electrostatic discharge (ESD) is a primary source of:

- equipment failure
- low productivity
- equipment repairs

A person cannot feel a static charge of less than 3,500 V, but 30 V can cause damage to components in the equipment.

Preventive Measures

- Check for an ESD WARNING LABEL before doing any procedure with static-sensitive components. All static-sensitive components have graphic LABELS that frequently include instructions. Use all label instructions.
- Wear a GROUNDING STRAP when you touch static-sensitive components. Check that the CLIP remains fastened to a ground that has a clean surface with no paint.
- Repair static-sensitive components in an ESD-protected area or use a PORTABLE GROUNDING MAT.
- When moving static-sensitive components from area to area, insert and transport the components in ESD-protective material.

Important

This icon is used for important information.

Note

This icon is used for additional information.

Section 2: Packing List

Part No.	Description	Quantity
4E8380	BRACKET - rear	2
4E8381	BRACKET - front	2
853119	SCREW - 3/8 x 3/4 in.	12
187317	LOCKWASHER - 3/8 in.	12
4E9110	PLATE - nut	2
4E8480	BRACKET - L-shaped	2
852869	SCREW - 1/2 x 1 in.	4
2E7985	LOCKWASHER - 1/2 in.	4
1F1971	WASHER - 1/2 in.	4
4E8371	THREADED PIN AY	2
4E8376	BRACKET - tank, includes 1 each: • SCREW - M6 x 12 mm • BRACKET • WASHER - M6	1
4E8372	BRACKET - film pocket, left	1
4E9557	BRACKET - film pocket, right	1
4512650	CABLE TIE	2
1F2361	TOOL - hooked	1

Section 3: Necessary Materials

Tools

Description
ELECTRIC DRILL
BIT - 11.0 mm (7/16 in.)
BIT - 5.0 mm (No. 9)
TAP - M6

Publications

Part No.	Description
II3477-2	INSTALLATION INSTRUCTIONS for the *Kodak* MINILOADER 2000/2000P
OI3479-7/97	OPERATOR GUIDE for the *Kodak* MINILOADER 2000P
SS3477-1	SITE SPECIFICATIONS for the *Kodak* MINILOADER 2000/2000P
3E0817	INSTALLATION INSTRUCTIONS for the *Kodak Min-R* MAMMOGRAPHY PROCESSOR

Section 4: Installation

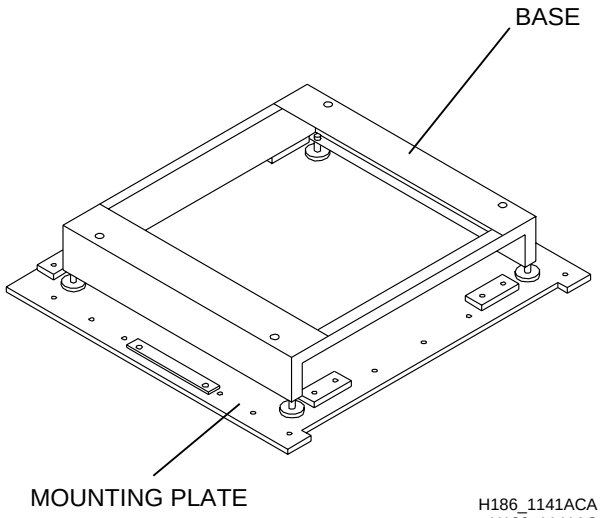
Installing the MINILOADER 2000P VAN KIT

Warning

- The VAN must have the *Kodak* MINILOADER 2000P VAN CONVERSION KIT 4E9554 installed before doing these procedures.
- You must do these procedures correctly when installing:
  - *Kodak* MINILOADER 2000P VAN KIT
  - *Kodak* MINILOADER 2000P
  - *Kodak Min-R* MAMMOGRAPHY PROCESSOR
- Failure to do these procedures correctly could cause:
  - excessive force against the BRACKETS on the floor of the VAN
  - MINILOADER 2000P to break loose and cause damage to personnel and equipment
  - you to be liable to prosecution

[1] In the INSTALLATION INSTRUCTIONS for the *Kodak* MINILOADER 2000/2000P II3477-2, do:

Chapter	Steps	Procedure
1	all	Sequence of Installation for the MINILOADER 2000P
2	all	Packing List ML2000P
4	1 - 4	Installation of the *Min-R* Mammography Processor onto the STAND



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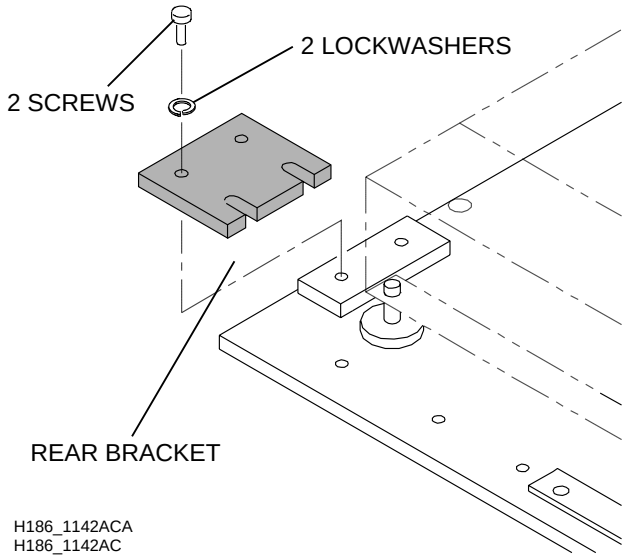
[2] Level the top of the MOUNTING PLATE. If necessary, move the VAN.

[3] Place the BASE on the MOUNTING PLATE.



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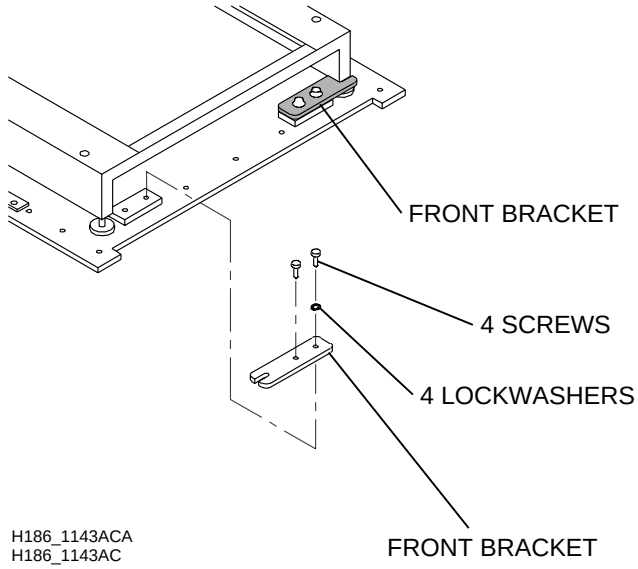
Important

Do not tighten the SCREWS.

[4] Install on each side of the BASE:

- new REAR BRACKET
- 2 new 3/8 in. LOCKWASHERS
- 2 new 3/8 x 3/4 in. SCREWS



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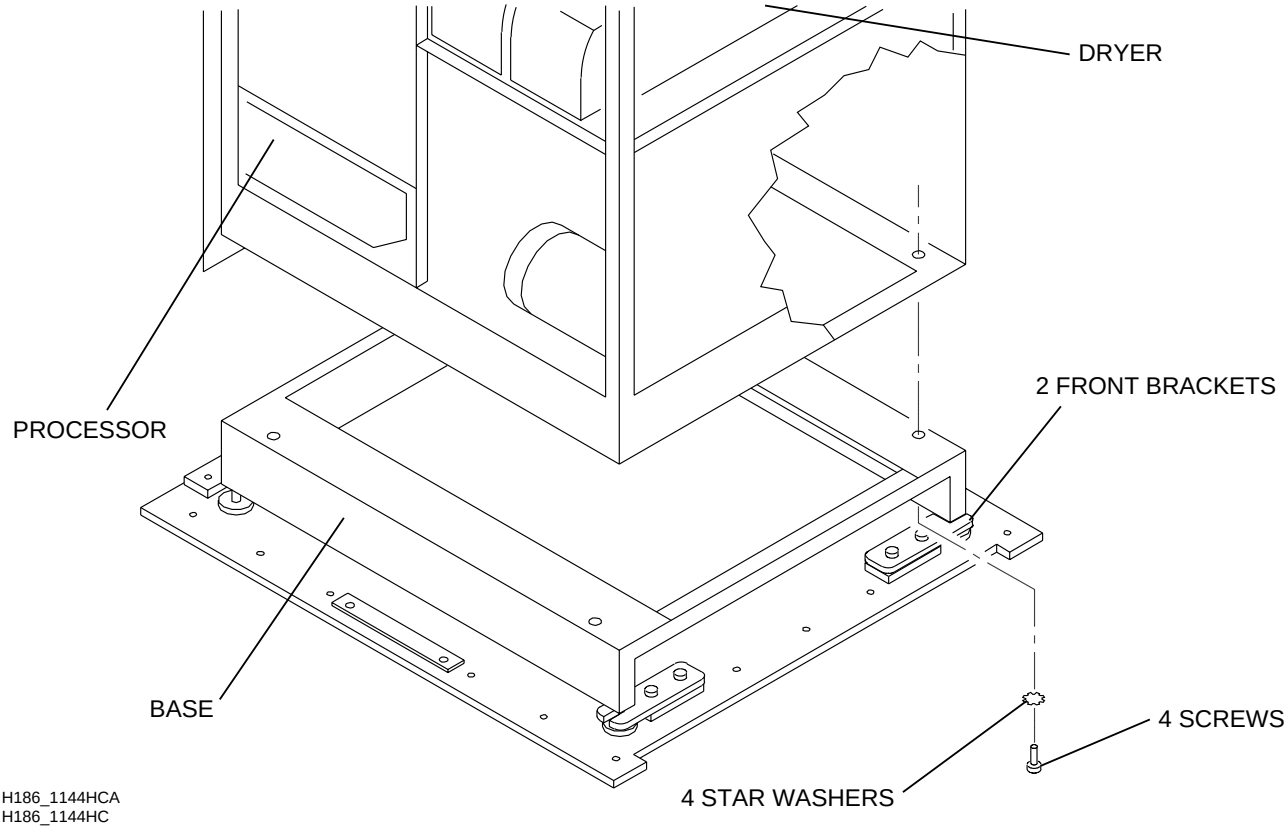
[5] Install:

- 2 new FRONT BRACKETS
- 4 new 3/8 in. LOCKWASHERS
- 4 new 3/8 x 3/4 in. SCREWS

[6] Tighten the 8 SCREWS.



[7] Install the MAMMOGRAPHY PROCESSOR onto the BASE with the DRYER above the 2 FRONT BRACKETS.

[8] Install:

- 4 SCREWS
- 4 STAR WASHERS

[9] In the INSTALLATION INSTRUCTIONS for the *Kodak* MINILOADER 2000/2000P II3477-2, do:

Chapter	Steps	Procedure
4	7 - 18	Installation of the *Min-R* Mammography Processor onto the STAND

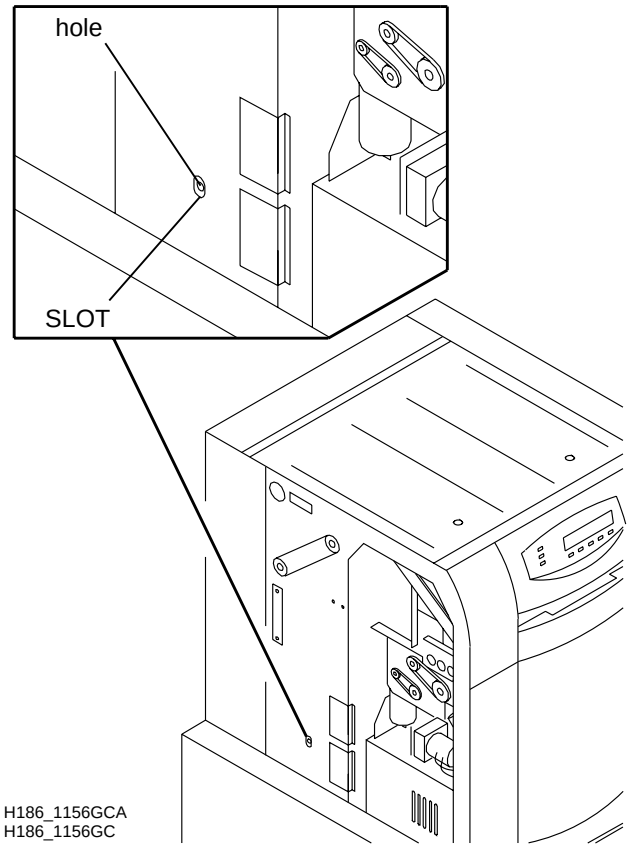
[10] Check that the MAMMOGRAPHY PROCESSOR is leveled correctly.

[11] Is the MAMMOGRAPHY PROCESSOR leveled correctly?

Yes	No
Continue with Step 12.	a. Loosen the SCREWS installed in Step 4 and Step 5. b. Level the MAMMOGRAPHY PROCESSOR. c. Tighten the SCREWS installed in Step 4 and Step 5. d. Continue with Step 12.

[12] In the INSTALLATION INSTRUCTIONS for the *Kodak* MINILOADER 2000/2000P II3477-2, do:

Chapter	Steps	Procedure
6	1 - 15	Mounting the ML2000P onto the STAND



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Caution

Be careful to protect all surfaces from debris during the drilling.

[13] Use the ELECTRIC DRILL and the 5.0 mm (No. 9) BIT to drill a hole in the center of the SLOT on each side of the MINILOADER 2000P.

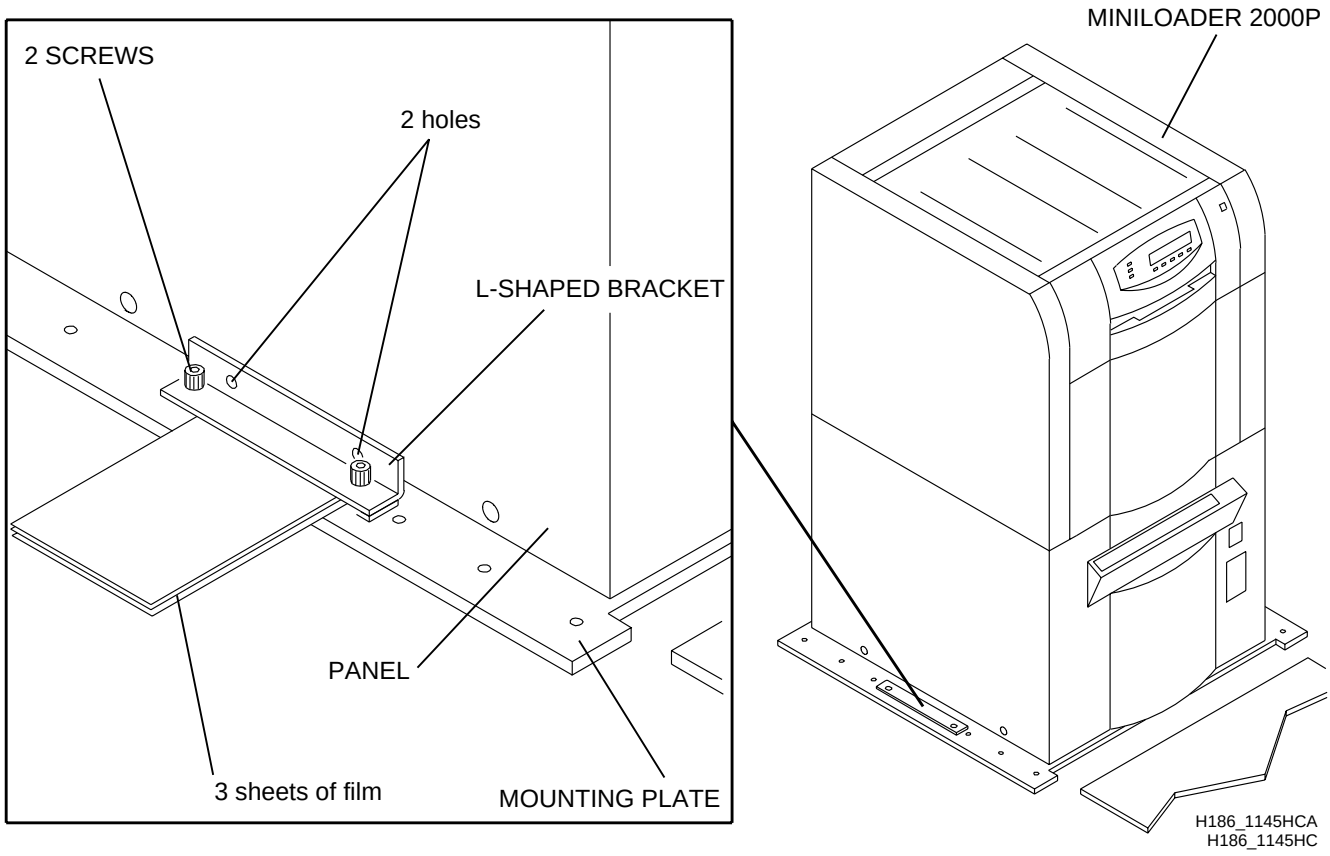
[14] Tap the hole on each side of the MINILOADER 2000P. Use the M6 TAP.

Warning

- The MAMMOGRAPHY PROCESSOR and the MINILOADER 2000P must be correctly connected to the ground on the main power supply.
- All tests in INSTALLATION INSTRUCTIONS for the *Kodak* MINILOADER 2000/2000P II3477-2, Chapter 10 - Final Test, must be completed correctly.
- The humidity and temperature inside the VAN must match the specifications in the SITE SPECIFICATIONS for the *Kodak* MINILOADER 2000/2000P SS3477-1.

[15] In the INSTALLATION INSTRUCTIONS for the *Kodak* MINILOADER 2000/2000P II3477-2, do:

Chapter	Steps	Procedure
6	16 - end	Mounting the ML2000P onto the STAND
7	all	Connecting the ML2000 / ML2000P to the MAINS
8	all	Setup of the ML2000 / ML2000P
9	all	Resizing MAGAZINES
10	all	Final Test



Important

Do not tighten the SCREWS.

[16] Install on each side of the MINILOADER 2000P:

- new L-SHAPED BRACKET
- 2 new 1/2 x 1 in. SCREWS

[17] Insert 3 sheets of film between the MOUNTING PLATE and the L-SHAPED BRACKET on each side of the MINILOADER 2000P.

[18] Tighten the 4 SCREWS.

[19] Make a mark on the PANEL in each of the 4 holes.

Warning

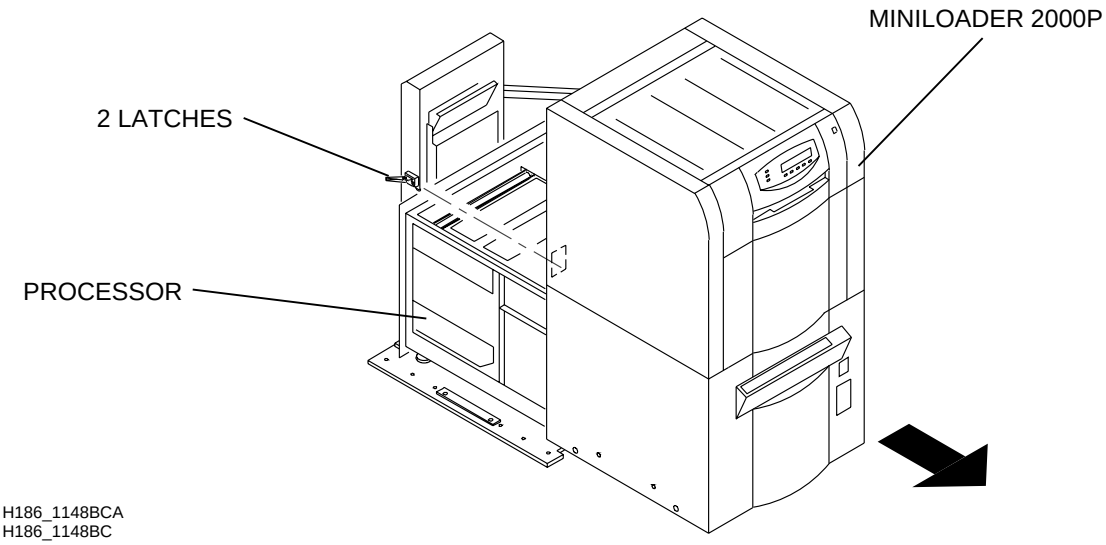
Dangerous Voltage

[20] De-energize the MAMMOGRAPHY PROCESSOR and the MINILOADER 2000P.

[21] Remove from each side of the MINILOADER 2000P:

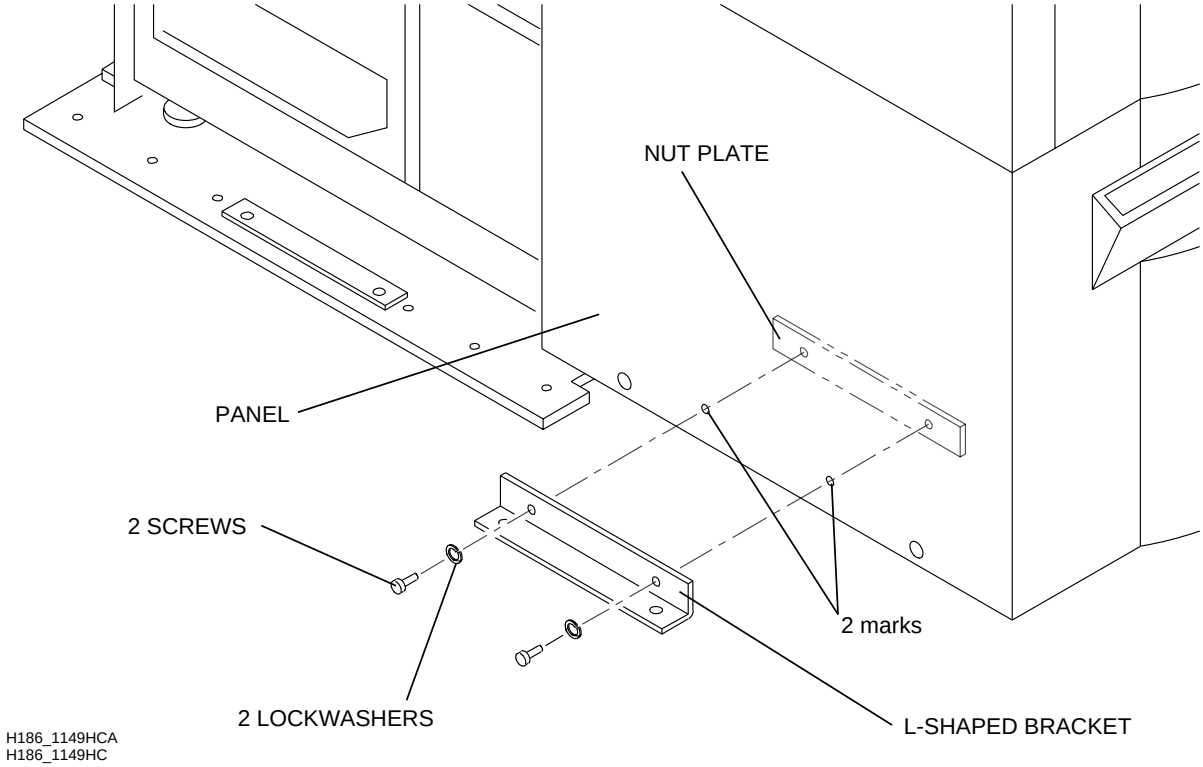
- 2 SCREWS
- L-SHAPED BRACKET

[22] Remove and discard the 6 sheets of film.



[23] Disconnect the 2 LATCHES.

[24] Move the MINILOADER 2000P from the PROCESSOR.

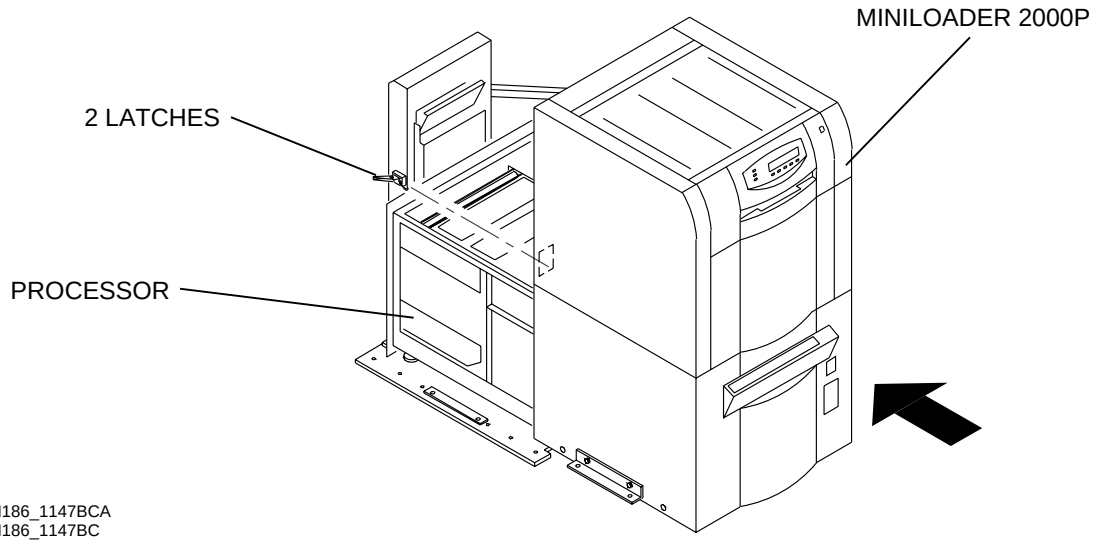


[25] Use the ELECTRIC DRILL and the 11.0 mm (7/16 in.) BIT to drill 2 holes at the 2 marks on the PANEL.

[26] Do Step 25 for the other side of the MINILOADER 2000P.

[27] Install the new parts on each side of the MINILOADER 2000P:

- L-SHAPED BRACKET
- 2 3/8 in. LOCKWASHERS
- 2 3/8 x 3/4 in. SCREWS
- NUT PLATE



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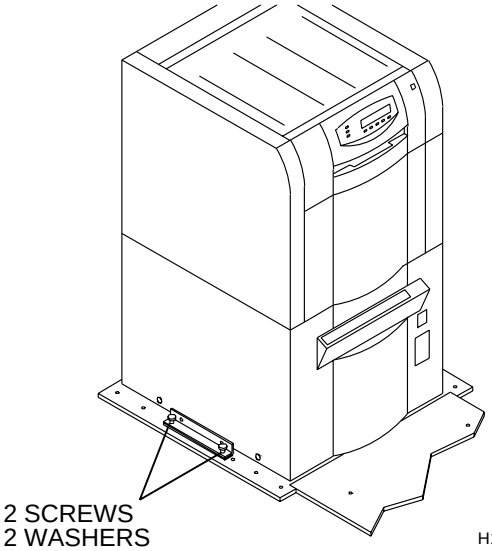
[28] Move the MINILOADER 2000P onto the PROCESSOR.

[29] Connect the 2 LATCHES.



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[30] Install on each side of the MINILOADER 2000P:

- 2 SCREWS removed in Step 21
- 2 new 1/2 in. LOCKWASHERS
- 2 new 1/2 in. WASHERS

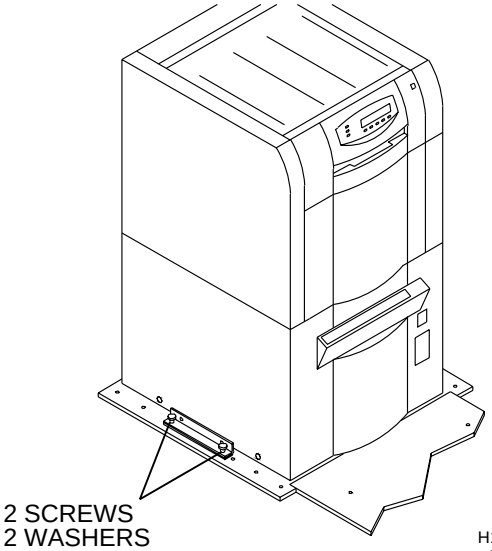
Warning

Dangerous Voltage

[31] Energize the MAMMOGRAPHY PROCESSOR and the MINILOADER 2000P.

[32] Check that the MAMMOGRAPHY PROCESSOR and the MINILOADER 2000P operate correctly.

Preparing the MINILOADER 2000P for Transport of the VAN



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Warning

- Dangerous Voltage
- Before transporting the VAN, the developer, fixer, and water must be drained from the TANKS.

[1] De-energize the PROCESSOR and the MINILOADER 2000P.

Important

Do not discard the developer and fixer.

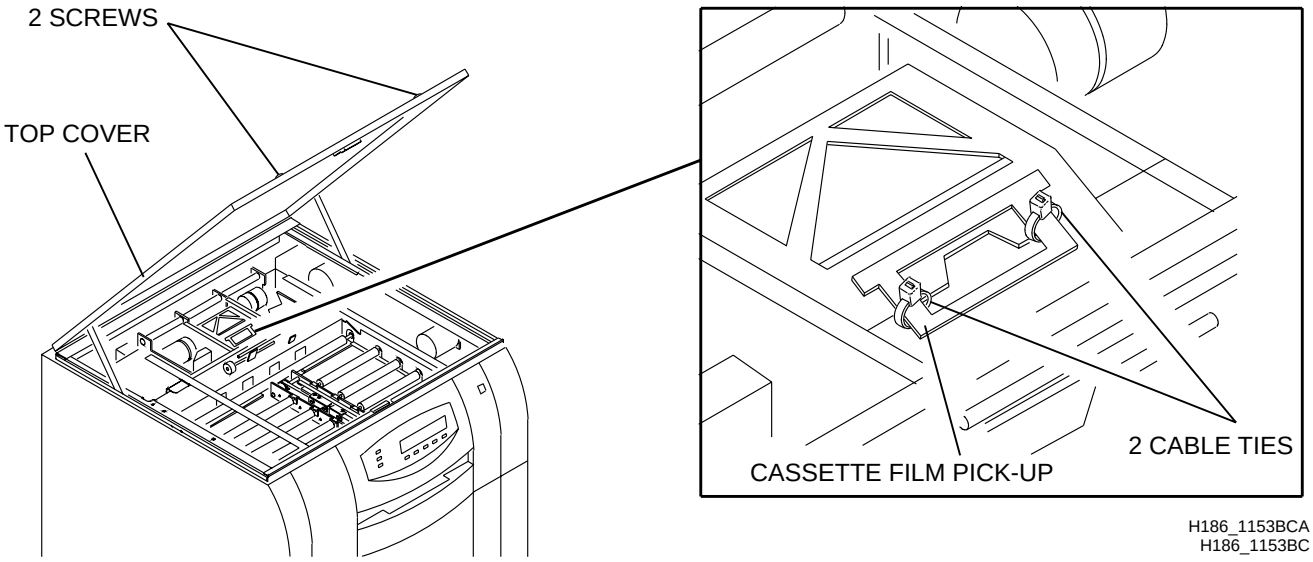
[2] Drain the TANKS.

[3] Keep the developer and the fixer.

[4] Remove and store all the MAGAZINES.

[5] Remove from each side of the MINILOADER 2000P:

- 2 SCREWS
- 2 WASHERS
- 2 LOCKWASHERS



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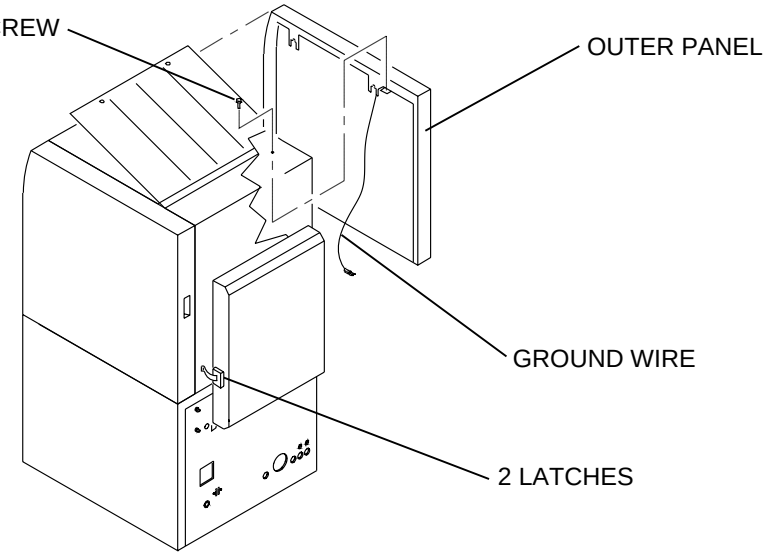
[6] Loosen the 2 SCREWS.

[7] Open the TOP COVER.

[8] Install the 2 new CABLE TIES on the CASSETTE FILM PICK-UP.



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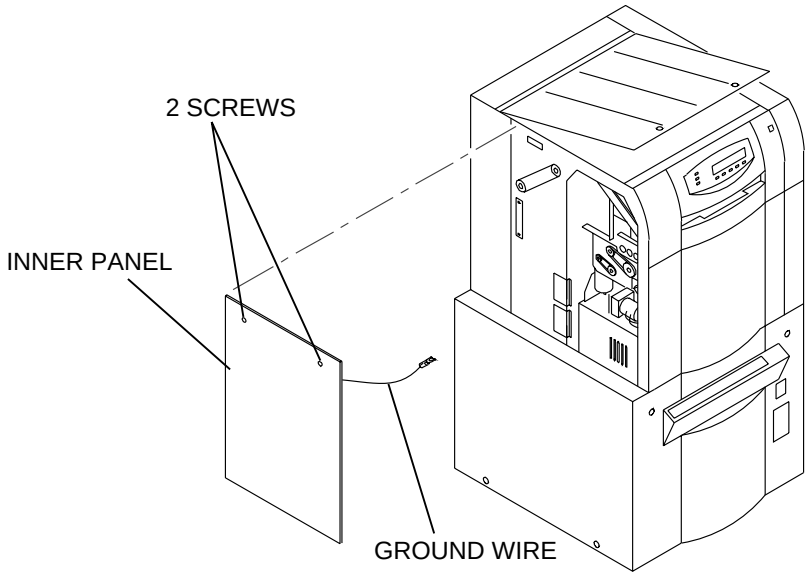
[9] Disconnect the 2 LATCHES.

[10] On each side of the MINILOADER 2000P:

(a) Remove:

- SCREW
- OUTER PANEL

(b) Disconnect the GROUND WIRE.



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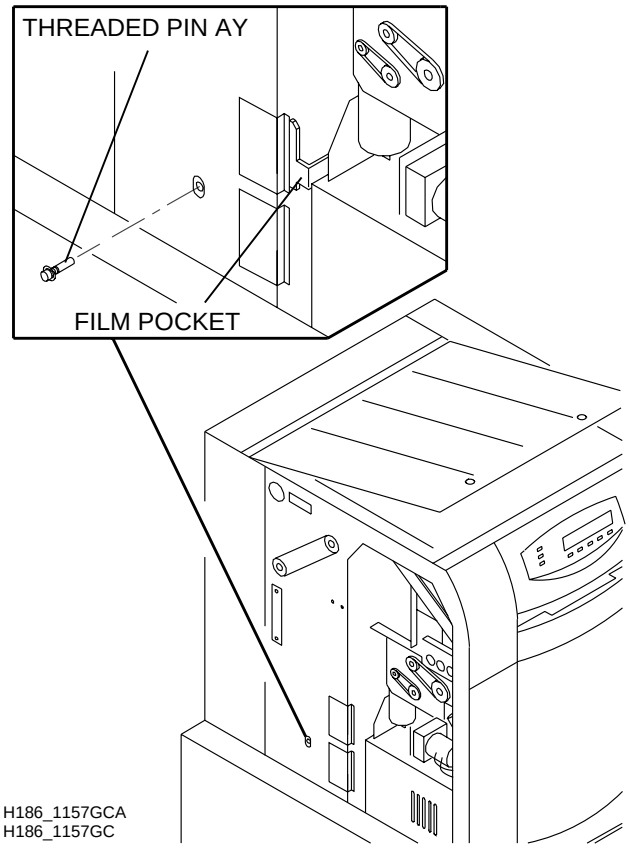
[11] On each side of the MINILOADER 2000P:

(a) Loosen the 2 SCREWS.

(b) Remove the INNER PANEL.

(c) Disconnect the GROUND WIRE.



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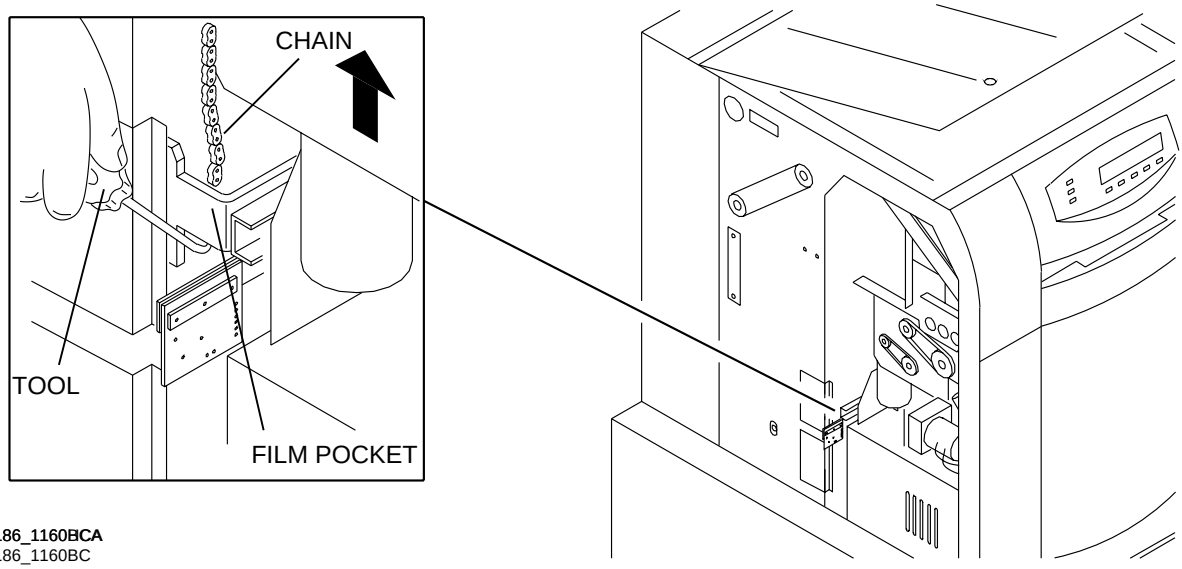
[12] Check that the FILM POCKET is down.

[13] Is the FILM POCKET down?

Yes	No
Continue with Step 14.	a. Manually move the FILM POCKET down. b. Continue with Step 14.

[14] Install the new THREADED PIN AY on each side of the MINILOADER 2000P.



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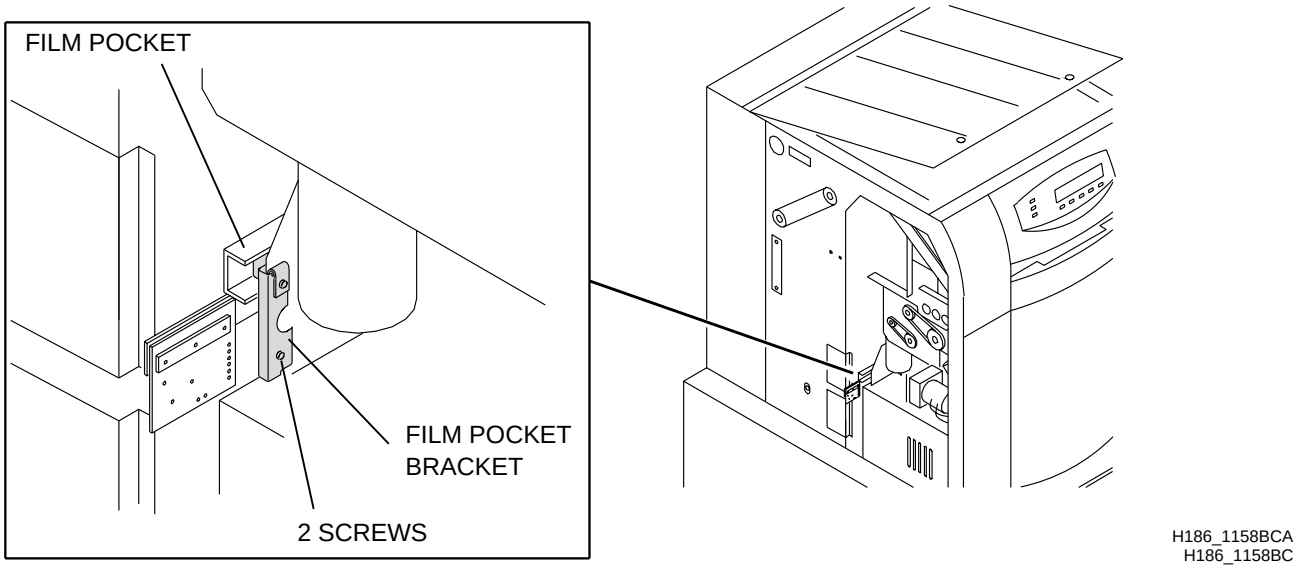
[15] Use the HOOKED TOOL to move the FILM POCKET up until the CHAIN is loose.



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Important

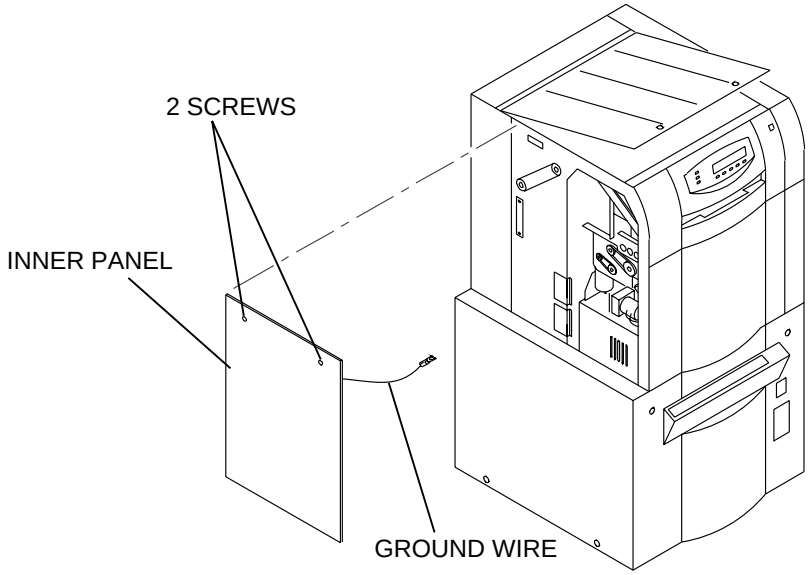
Do not tighten the 2 SCREWS.

[16] Hold the FILM POCKET and align the new left FILM POCKET BRACKET with the FILM POCKET.

[17] Install the left FILM POCKET BRACKET.

[18] Tighten the 2 SCREWS.

[19] Do Step 16 - Step 18 to install the right FILM POCKET BRACKET.



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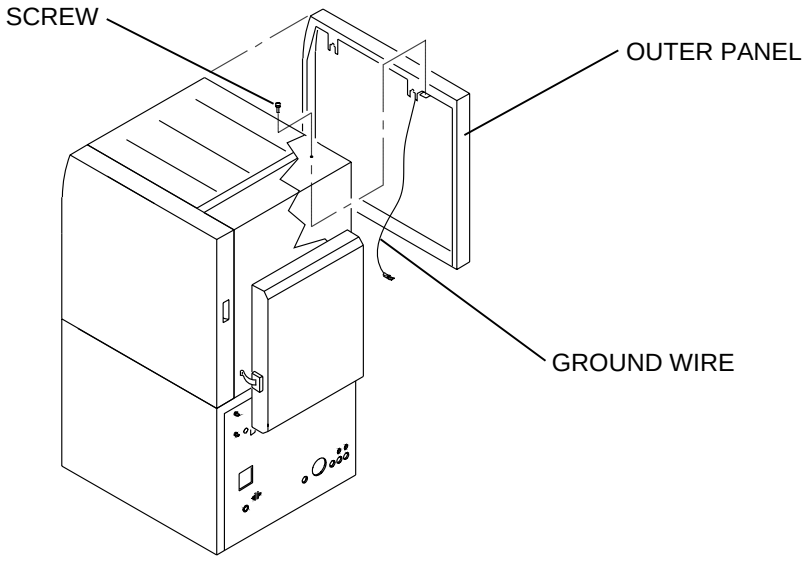
[20] On each side of the MINILOADER 2000P:

- **(a)** Connect the GROUND WIRE.
- **(b)** Install the INNER PANEL.
- **(c)** Rotate the 2 SCREWS clockwise 1/4 rotation.



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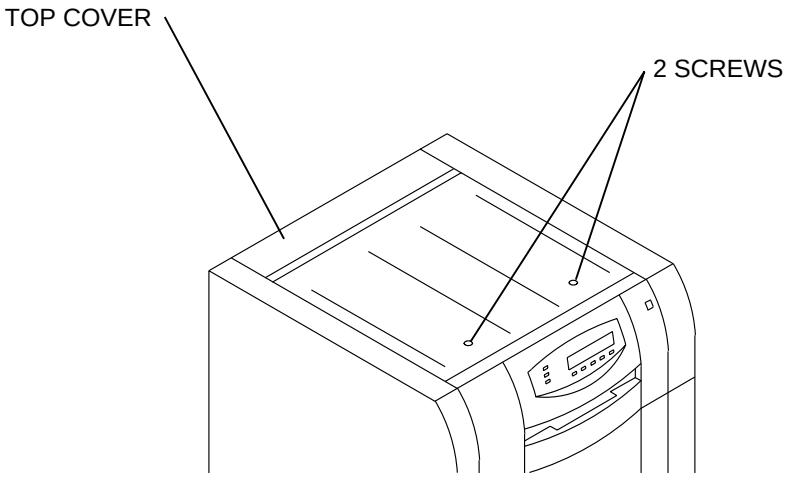
[21] On each side of the MINILOADER 2000P:

(a) Connect the GROUND WIRE.

(b) Install:

- OUTER PANEL
- SCREW



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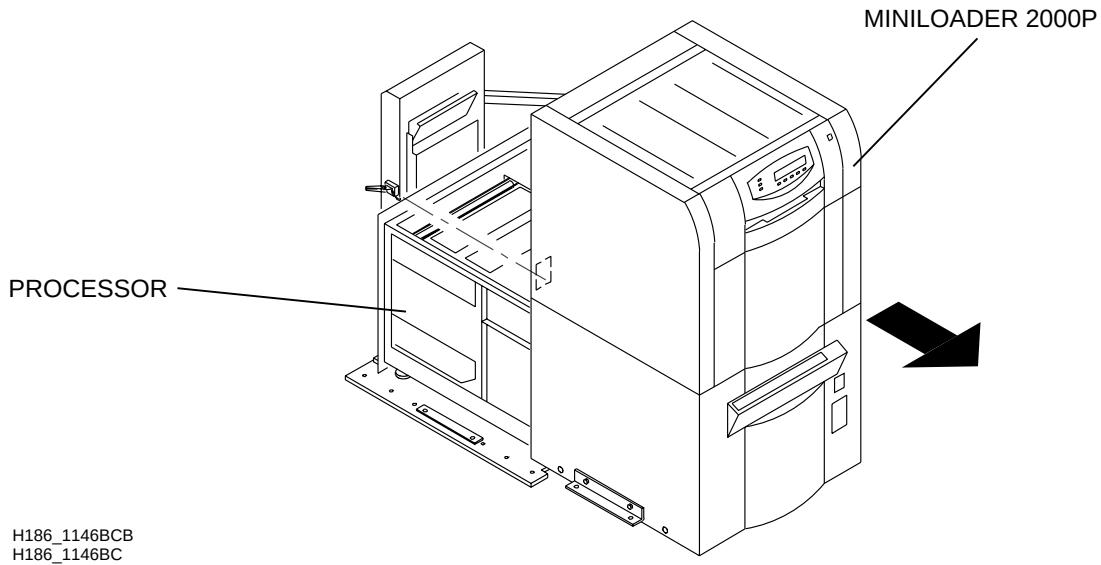
[22] Close the TOP COVER.

[23] Tighten the 2 SCREWS.



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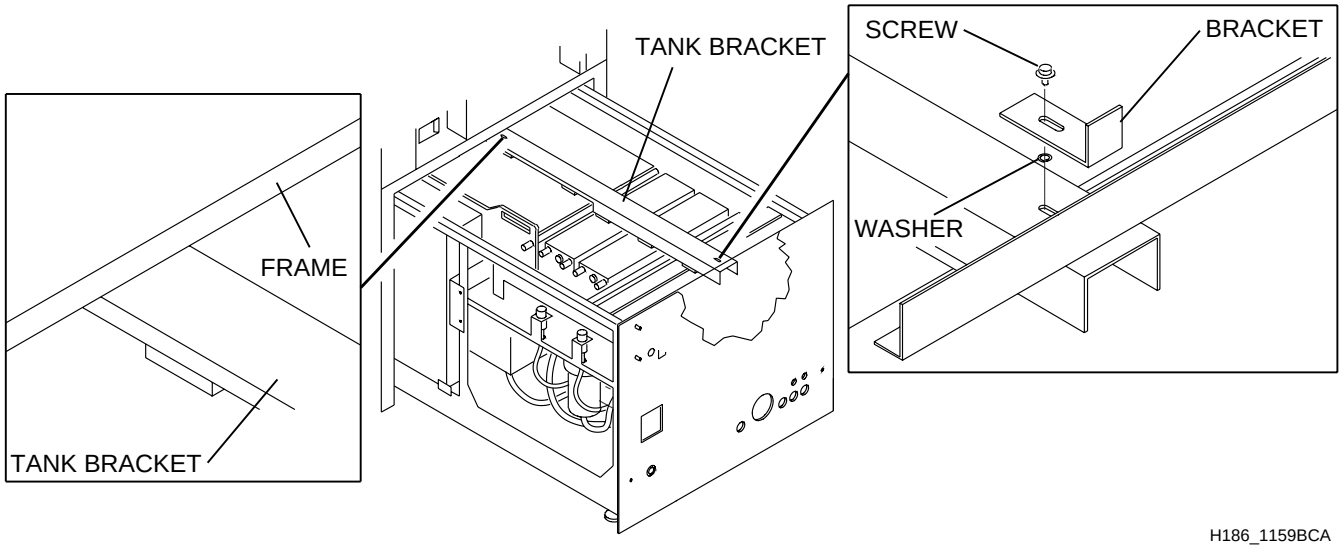
[24] Move the MINILOADER 2000P from the MAMMOGRAPHY PROCESSOR.



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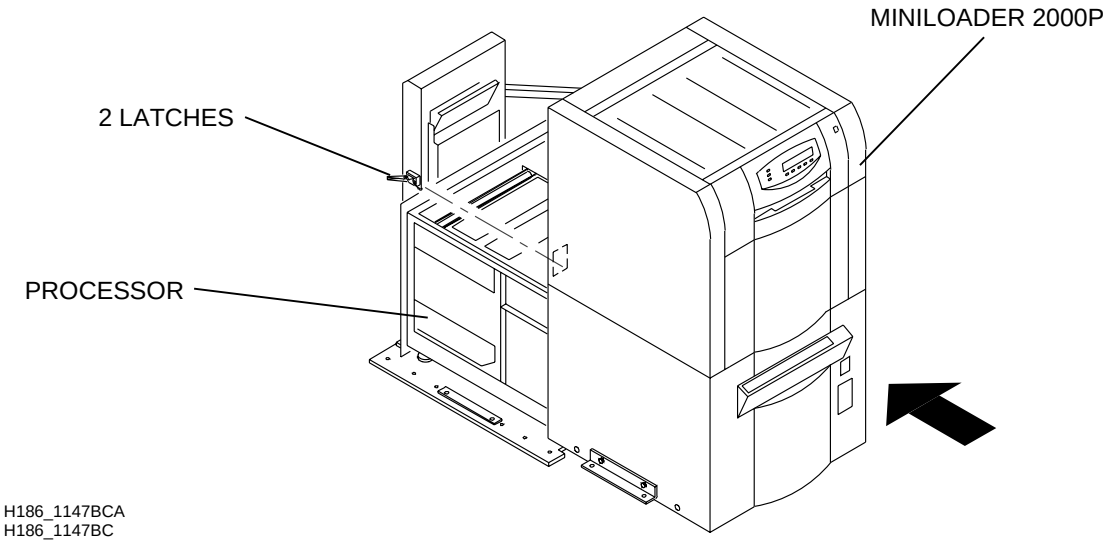
[25] Install the new:

- TANK BRACKET under the FRAME
- BRACKET
- M6 x 12 mm SCREW
- M6 WASHER



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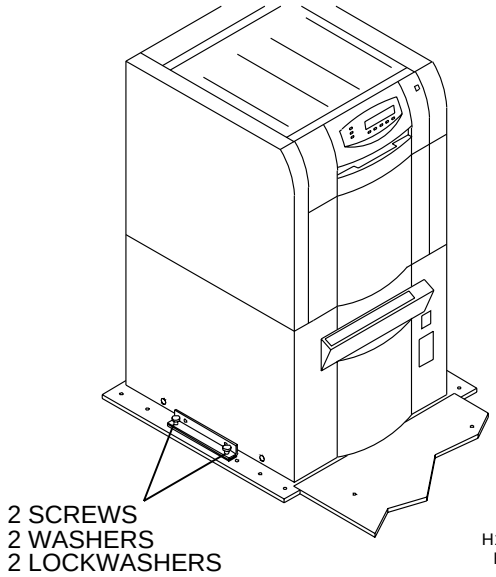
[26] Move the MINILOADER 2000P onto the PROCESSOR.

[27] Connect the 2 LATCHES.



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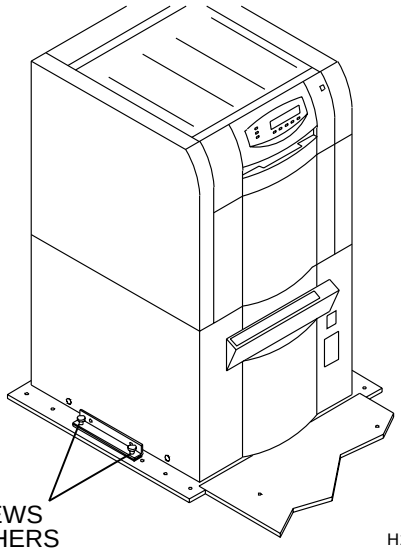
Warning

Prevent damage to personnel and equipment.

[28] Before transport, install on each side of the MINILOADER 2000P:

- 2 SCREWS
- 2 WASHERS
- 2 LOCKWASHERS

Setting Up the MINILOADER 2000P After Transport of the VAN



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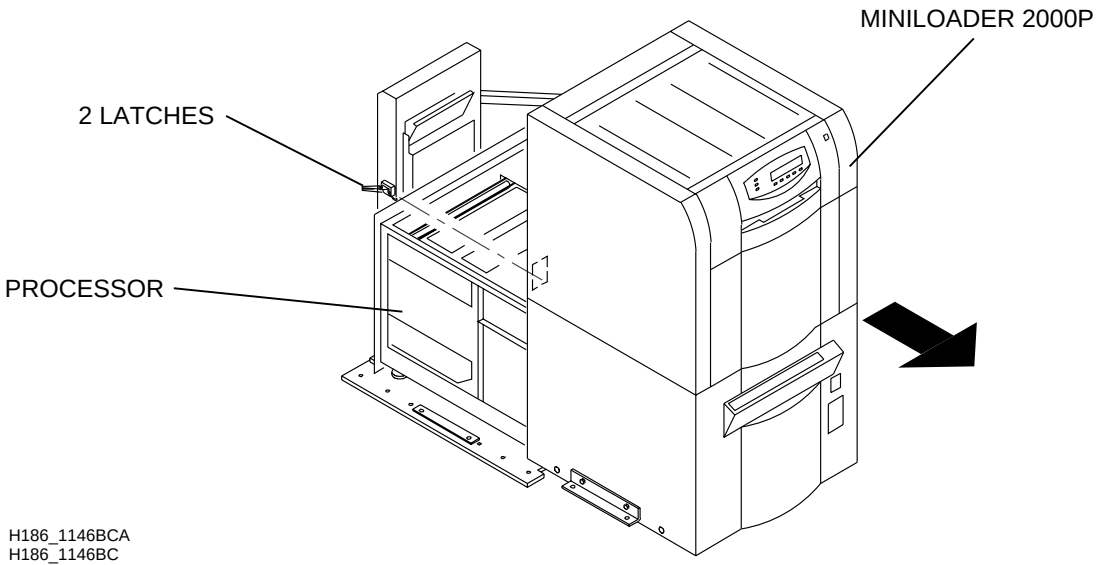
Important

Keep all parts removed in this procedure. Store for transport of the VAN.

[1] Remove from each side of the MINILOADER 2000P:

- 2 SCREWS
- 2 WASHERS
- 2 LOCKWASHERS



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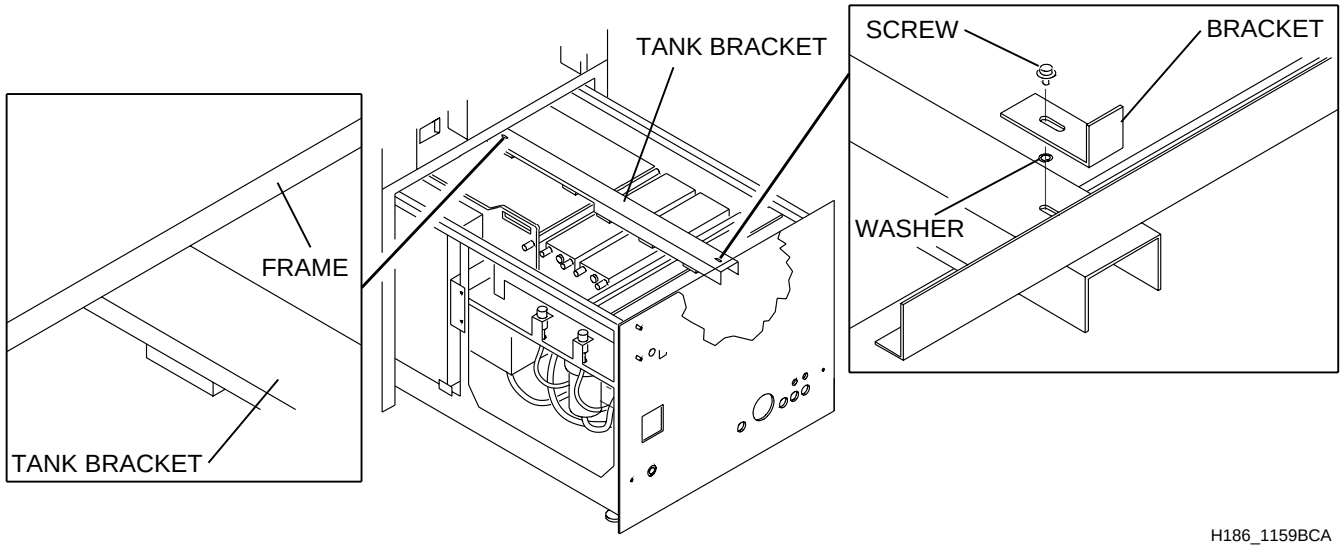
[2] Disconnect the 2 LATCHES.

[3] Remove the MINILOADER 2000P from the PROCESSOR.

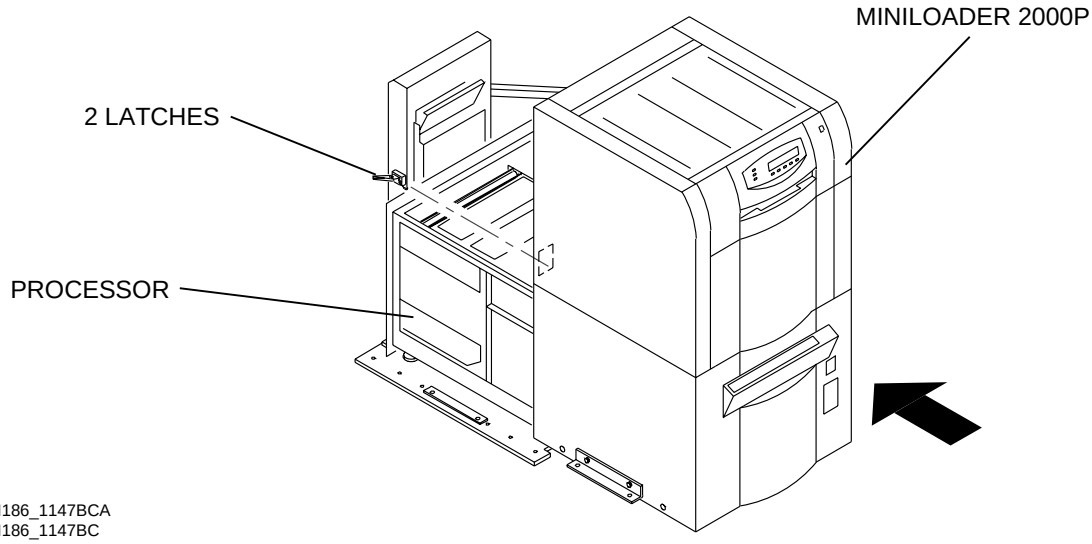


H186_1159BCA
H186_1159BC

[4] Remove:

- SCREW
- BRACKET
- WASHER
- TANK BRACKET from under the FRAME

[5] Level the MAMMOGRAPHY PROCESSOR. If necessary, move the VAN.



H186_1147BCA
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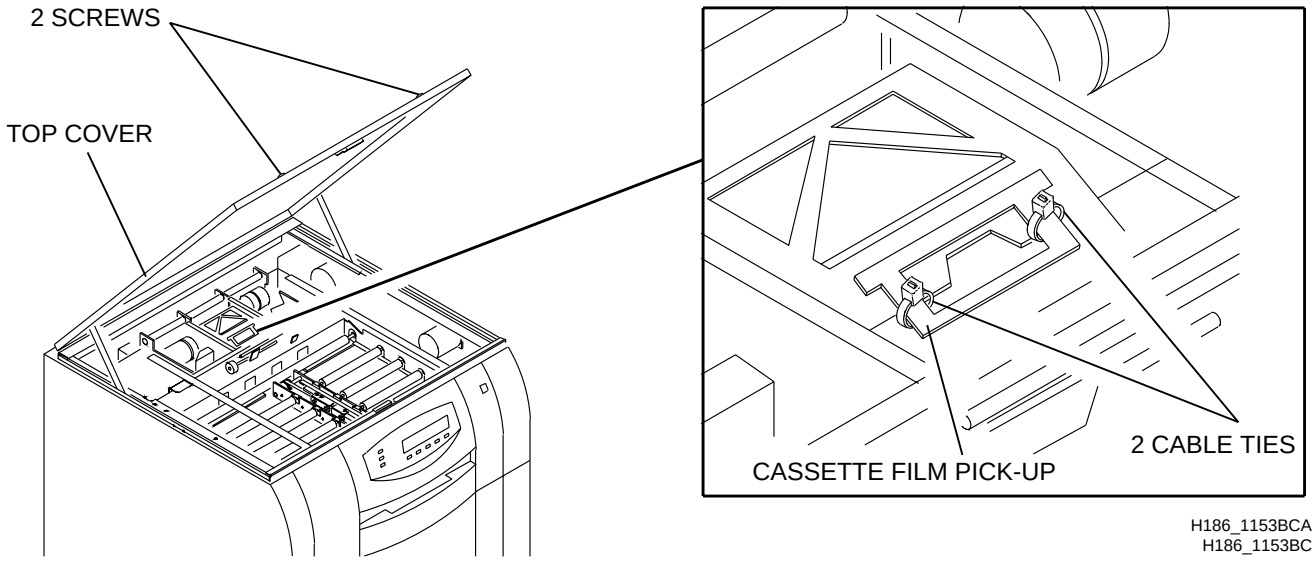
[6] Move the MINILOADER 2000P onto the PROCESSOR.



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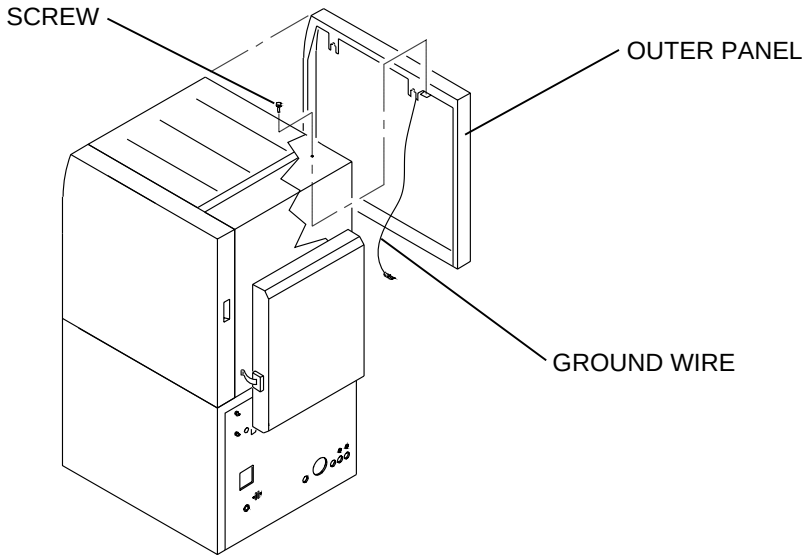
[7] Loosen the 2 SCREWS.

[8] Open the TOP COVER.

[9] Remove and discard the 2 CABLE TIES from the CASSETTE FILM PICK-UP.



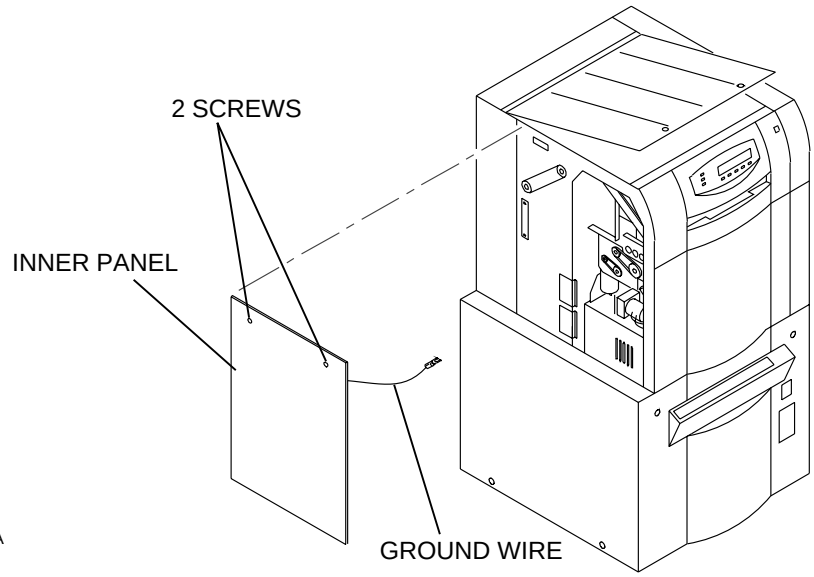
H186_1154BCB
H186_1154BC

[10] On each side of the MINILOADER 2000P:

(a) Remove:

- SCREW
- OUTER PANEL

(b) Disconnect the GROUND WIRE.



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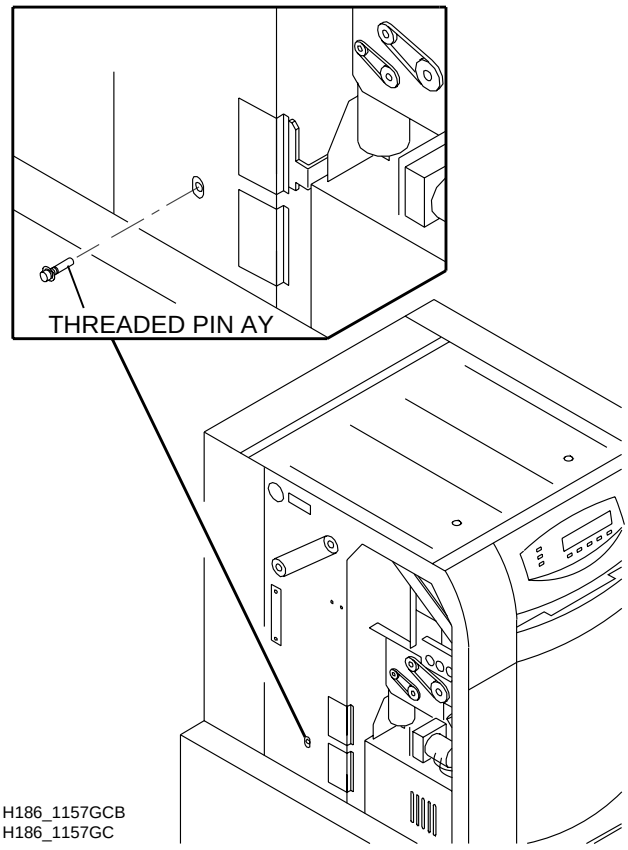
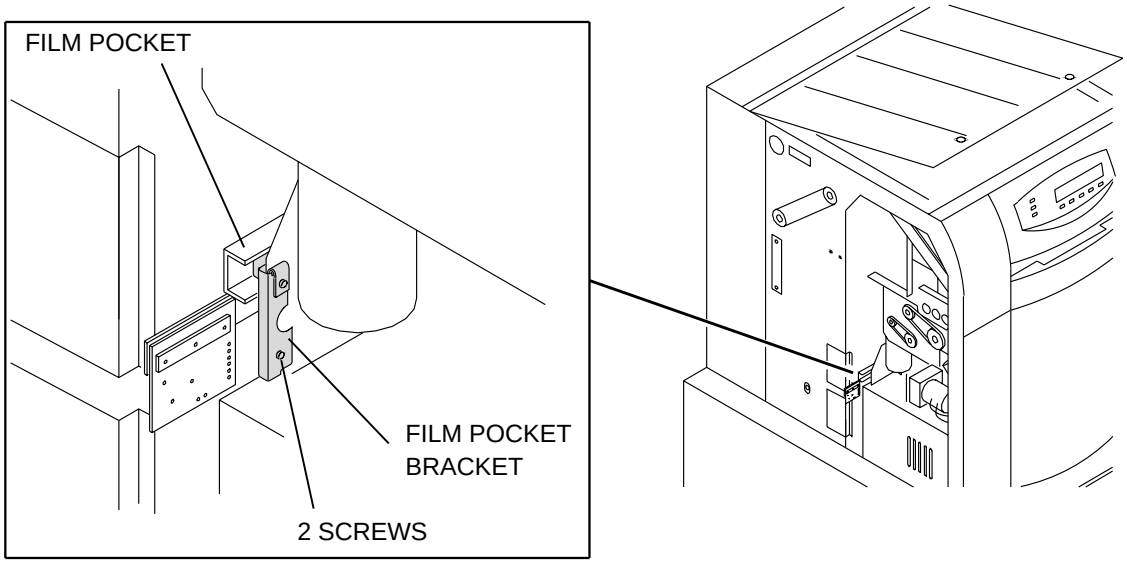
[11] On each side of the MINILOADER 2000P:

- **(a)** Loosen the 2 SCREWS.
- **(b)** Remove the INNER PANEL.
- **(c)** Disconnect the GROUND WIRE.

[12] Remove the THREADED PIN AY from each side of the MINILOADER 2000P.



H186_1157GCB
H186_1157GC

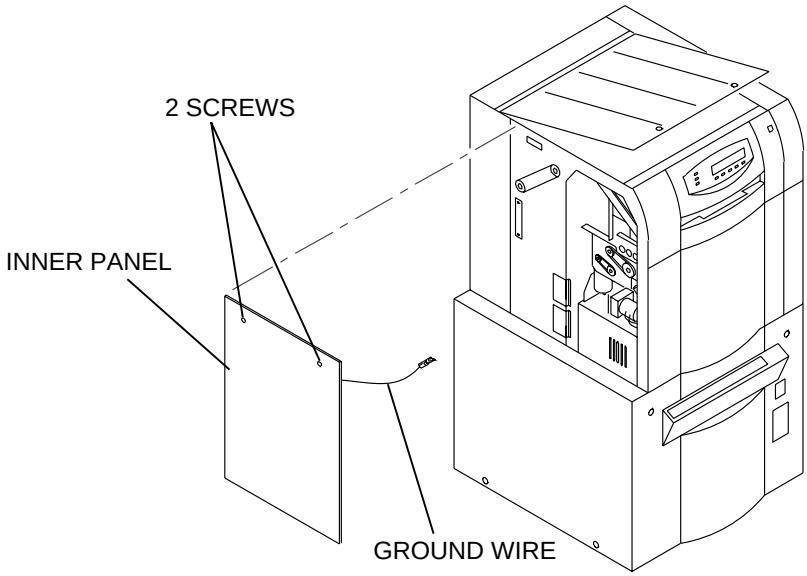


H186_1158BCA
H186_1158BC

[13] Loosen the 2 SCREWS on each side of the MINILOADER 2000P.

[14] Remove:

- left FILM POCKET BRACKET
- right FILM POCKET BRACKET



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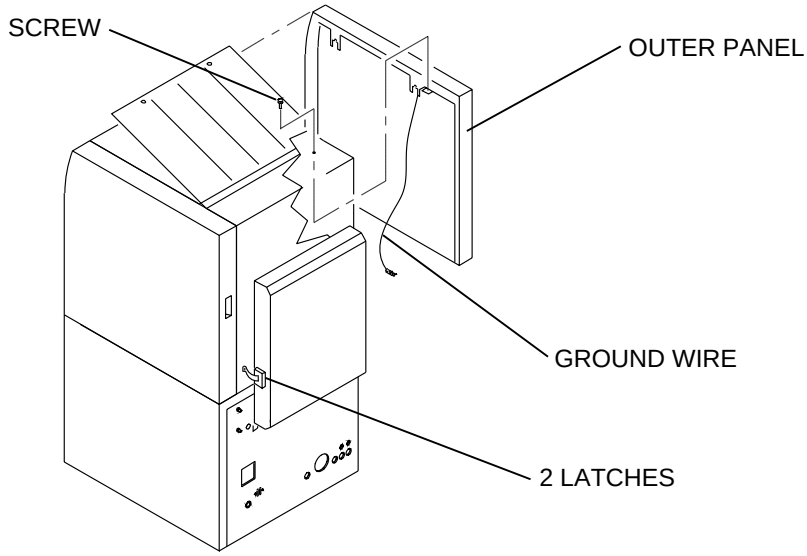
[15] On each side of the MINILOADER 2000P:

(a) Connect the GROUND WIRE.

(b) Install the INNER PANEL.

(c) Tighten the 2 SCREWS.



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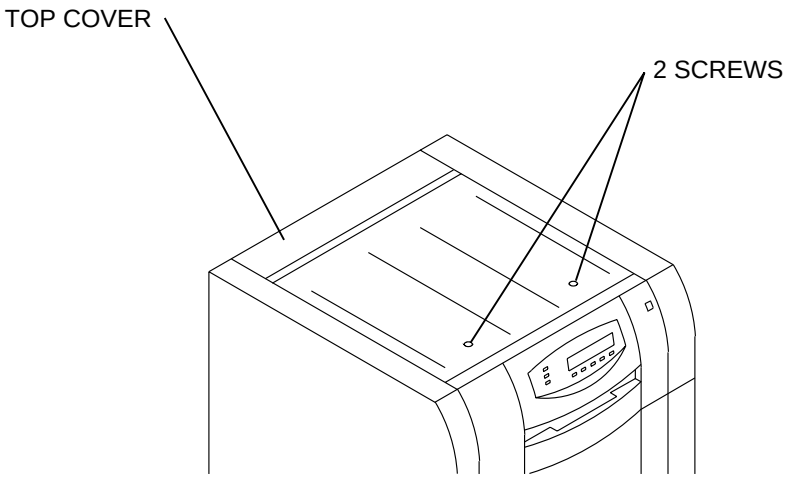
[16] On each side of the MINILOADER 2000P:

(a) Connect the GROUND WIRE.

(b) Install:

- OUTER PANEL
- SCREW

[17] Connect the 2 LATCHES.



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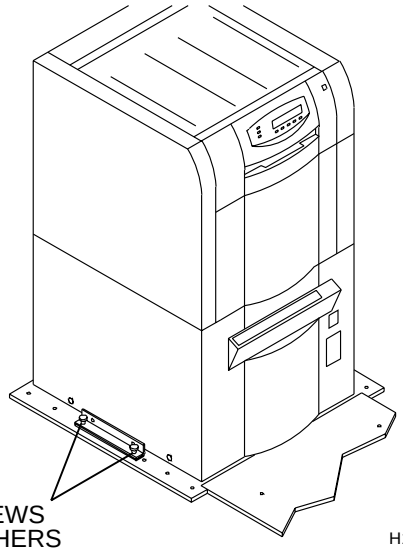
[18] Close the TOP COVER.

[19] Tighten the 2 SCREWS.



2 SCREWS
2 WASHERS
2 LOCKWASHERS

H186_1150ACA
H186_1150AC

[20] Install on each side of the MINILOADER 2000P:

- 2 SCREWS
- 2 LOCKWASHERS
- 2 WASHERS

[21] Fill the TANKS.

[22] Install the MAGAZINES.

Warning

- Dangerous Voltage
- Only energize the MAMMOGRAPHY PROCESSOR and the MINILOADER 2000P if the VAN is not moving.

[23] Energize the MAMMOGRAPHY PROCESSOR and the MINILOADER 2000P.

[24] Process film to check for correct operation of the MAMMOGRAPHY PROCESSOR and the MINILOADER 2000P.

Publication History

Publication Date	Publication No.	ECO No.	Changed Pages	File Name	Notes
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